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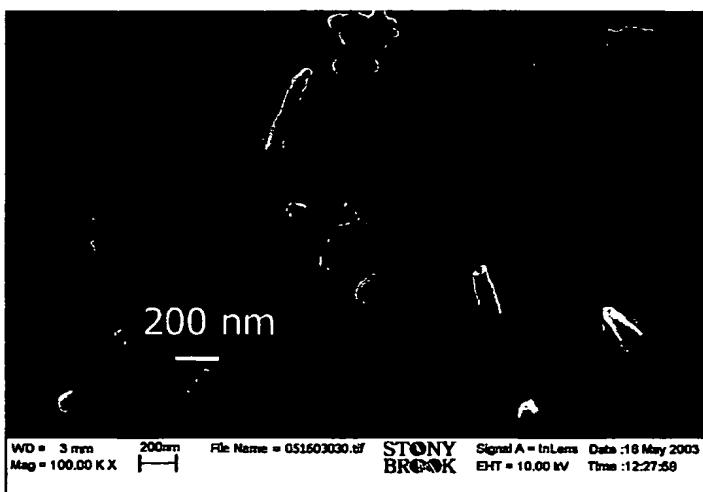
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(54) Title: NANOCOMPOSITE FIBERS AND FILMS CONTAINING POLYOLEFIN AND SURFACE-MODIFIED CARBON NANOTUBES



(57) Abstract: Methods for modifying carbon nanotubes with organic compounds are disclosed. The modified carbon nanotubes have enhanced compatibility with polyolefins. Nanocomposites of the organo-modified carbon nanotubes and polyolefins can be used to produce both fibers and films having enhanced mechanical and electrical properties, especially the elongation-to-break ratio and the toughness of the fibers and/or films.

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